

Negative Phase-Sequence Filters With Independent Arms 105-58-6-7/33

SUBMITTED: April 30, 1957

1. Electric filters--Performance 2. Electric filters--Mathematical analysis 3. Electric filters--Equipment

Card 4/4

VITANOV, A.B., inzh.

Theory and application of three-phase system components.
Elektrichestvo no.6:77-84 Je*64 (MIRA 1727)

1. Institut energetiki, Sofiya, Bolgariya.

VITANOV, A.B., inzh.

New device for locating damaged phases. Elek. sta. 33 no. 5:61-66
(MIRA 15:7)
My '62.

1. Institut energetiki Bolgarskoy Akademii nauk.
(Electric power distribution)
(Electric measurements)

CZECHOSLOVAKIA

O. VINAR [Same affiliation as above.]

"News in Clinical Use of Psychopharmacological Drugs."

Prague, Activitas Nervosa Superior, Vol 5, No 1, Jan 63; pp 93-105.

Abstract [English summary modified]: A general review of the current literature. In addition to the usual US drugs, comments about the Czech anti-euphorians (for agitated, manic patients) phencharazine, bis-homoreserpine which author found essentially same as reserpine clinically, chlorproheptazine (Cl analog of miltoperazine), dichlorpromazine, the Hungarian trihexazine and the Soviet di-isopropylpiperazine and a few other Czech analogs of drugs well known in the West. One Hungarian, 6 Soviet, 33 Czech and 10 Western references.

1/1

VITANOV, Al.

Theory and application of the components of a three-phase system.
Izv Lab avtomat telemekh 1:37-71 '64.

VITANOV, Aleksandur B., inzh.

Threshold characteristics of phase comparison relays and networks
with 180° operating range. Teknika Bulg 13 no.9:6-9 '64.

1. Institute of Electric Power Engineering.

VITANOV, A.B., inzh. (Bulgariya, Sofiya).

Negative phase-sequence filters with independent arms. Elektriches tvo
no.6:29-32 Je '58. (MIRA 11:6)
(Electric filters)

MICHEV, V., dots. kand. na tekh. nauki.; VITANOV, D., inzh.

Quality of the Bulgarian low-carbon steels for the manufacture
of wire and binding materials. Min delo 18 no.3:22-25 '63.

VITANOV D.P.

USSR/Cultivable Plants - grains.

1-2

Abs Jour : Ref Zhur - Biol., No 3, 1958, 10741
Author : Kryukov, A.I., Vitanov, D.P.
Inst : Kamensko-Dnepropetrovsk Testing Amelioration Station
Title : Corn Under Conditions of Irrigation.
Orig Pub : Kukuruz, 1956, No 6, 20-22

Abstract : The Kamensko-Dnepropetrovsk Testing Amelioration Station has determined (1950-1955) that in years of average dryness corn yields are more than double by irrigation. The best predecessors of irrigated corn are grains, potato, and melon-vegetable crops. /viagovaryedkovyy/ irrigation is best done in October-November (normal rate -- 900-1000 m³/hectare); in the second part of the summer at least two vegetation irrigations should be given (at 600-700 m³/hectare); the first during the phase when panicles are

Card 1/2

USSR/Cultivable Plants - Grains

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Abs Jour : Ref Zhur - Biol., No 3, 1958, 10741

being discarded, and the second -- when the ears are filling out with grain. Up to 400 centners of green mass per hectare were harvested from a corn field which followed a harvest of early vegetables and winter wheat.

Card 2/2

RUBIN, V.F.; VITANOV, D.R.

[Cabbage]Kapusta. Kyiv, Derzh.vyd-vo sil's'kohospodars'koi
lit-ry URSR, 1961. 91 p. (MIRA 15:10)
(Cabbage)

VITANOV, G.

Obtainment of rolled metals with minus tolerances. Min delo
18 no.3:25-26 '63.

1. Nauchnoizsledovatelski institut po cherna metalurgiia.

VITANOV, Koicho, inzh.

Sound range in radio broadcasting. Tekhnika Bulg 10 no.1:24-26 '61.

VLTANOV, K.

"Filters for Elimination of Interferences."

p 45 (Radio I Televizia, Vol. 7, No. 6, 1958, Sofia, Bulgaria)

Monthly Index of East European Accessions (EEAI) LC, Vol. 7, No. 11,
Nov. 1958

VITANOV, K.

Limits of maximal amplitude in amplifiers. p.57.
(RADIO I TELEVIZIIA, Vol. 6, no. 3, 1957, Sofia, Bulgaria.)

SO: Monthly List of East European Accessions (EEAL) LC, Vol. 6, no. 12, December 1957 Uncl.

VITANOV, K.

Calculating the filter choking coil in current-rectified group. p. 56.
(RADIO I TELEVIZIIA, Vol. 6, no. 4, 1957, Sofia, Bulgaria.)

SO: Monthly List of East European Accessions (EEAL) LC, Vol. 6, no. 12, December 1957 Unclassified

VITANOV, K.

Arrangement of loud-speakers in modern radio sets. p. 38.
(RADIO I TELEVIZIIA, Vol. 6, no. 5, 1957, Sofia, Bulgaria.)

SO: Monthly List of East European Accessions (EEAL) LC, Vol. 6, no. 12, December 1957 Uncl.

VITANOV, K.

Tune regulator in modern radio receivers. p. 4.
(RADIO I TELEVIZIIA, Vol. 6, no. 6, 1957, Sofia, Bulgaria.)

SO: Monthly List of East European Accessions (EEAL) LC, Vol. 6, no. 12, December 1957 Uncl.

VITANOV, K.

Current Regulator Groups. RADIC (Radio) #11:37:Nov 54

VITANOV, K.

Calculation of the Smoothing Filter Choke. RADIO (Radio) #11:43:Nov 54

VITANOV, K.

Characteristics of European Detecting and Radio Tubes with a Heating Filament
of 6.3 AC Volt. RADIO (Radio) #11:47: Nov 54

VITANOV, K.

The Second Congress of the DOSO Organization. In Radio Engineering,
No. 2:1 Feb 55

VITANOV, K.

Radio Communication in the First Years Since the Founding of the
Soviet Army (In the War of Intervention). In Radio Engineering, No. 2:3
Feb 55

VITANOV, K.

Feb 55 A Patriot and Fighter for Freedom. In Radio Engineering, No. 2:5

"APPROVED FOR RELEASE: 09/01/2001

CIA-RDP86-00513R001860110018-5

VITANOV, K.

Measuring the Phase Shift Between Potentials. Radio Engineering, #3:42:Mar.55

APPROVED FOR RELEASE: 09/01/2001

CIA-RDP86-00513R001860110018-5"

VITANOV, K.

Cathode Amplifiers. Radio Engineering, #4:19:Apr.55

VITANOV, K.

Magnetic and Electroacoustic Shielding (Screening of Sound Transformers. Radio
Engineering, #6:15:June 55

VITANOV, K.

VITANOV, K. Nonlinear curves with low-frequency amplifiers. p. 34. Vol. 5,
no. 11, 1956 ELEKTROENERGIJA. Sofiia, Bulgaria

SOURCE: East European Accessions List (EEAL) Vol 6, No. 4--April 1957

VITANOV, K.

Magnetic and electroacoustic projection of sound transformers. p. 15.

Vol. 4, no. 6, 1955

RADIO

Sofiya, Bulgaria

So: Eastern European Accession Vol. 5 No. 4 April 1956

VITANOV, K.

Calculation of acoustics in a radio transmitting studio. p. 81.

Vol. 4, no. 7/8, 1955

RADIO

Sofiya, Bulgaria

So: Eastern European Accession Vol. 5 No. 4 April 1956

VITANOV, K.

Antennas for the radio wire system. p. 46.

Vol. 4, no. 9, 1955
RADIO
Sofiya, Bulgaria

So: Eastern European Accession Vol. 5 No. 4 April 1956

VITANOV, K.

Vitanov, K. Cathode-ray tubes. p. 19. RADIO. Sofiya. Vol. 4, no. 4, 1955.

SO: Monthly List of East European Accessions, (EEAL), LC, Vol. 4, No. 11,
Nov. 1955, Uncl.

VITANOV, L.

The manufacture of agricultural machinery in Bulgaria. Tr. from the Bulgarian.

p. 246. (Zemedelske Stroje.) (Praha, Czechoslovakia) Vol. 2, No. 11, Nov. 1957

SO: Monthly Index of East European Accession (EEAI) LC. Vol 7 No. 5, May 1958

VITANOV, N.

Advantageous coordination of irrigation with water-power production in Bulgaria.
p. 40 Kirovetska I Melioratsii Vol. 3, No. 2, 1956. Sofia Bulgaria

Monthly Index of East European Accessions (EEAI) LC, Vol. 7, No. 10,
Oct. 58

VITANOV, M

Coordinated use of water for electric-power installations and irrigation. p. 19.
TEKHNIKA, Sofiya, Vol. 4, no. 6, Aug./Sept. 1955.

SD: Monthly List of East European Accessions, (EEAL), LC, Vol. 5, No. 6 June 1956,
Uncl.

VITANOV, Mikhail, d-r.

Economic effect of the pumping stations at the "Begleka", and
"Toshkov chark" dams during 1959 and 1960. Elektroenergiia 12 no.9:
8-11 '61.

(Pumping stations) (Electric power)

VITANOV, M.

"More machines for agriculture" (p. 20) KOOPERATIVNO ZEMEDELIE
(Ministerstvo na zemedelioto) Sofiya Vol 8 № 12 1953

SO: East European Accessions List Vol 2 № 7 Aug 1954

VITANOV, Mikhail, d-r

Some improtant economic problems in the exploitation of
large dams in Bulgaria. Elektroenergiia 14 no. 12: 3-6
D '63.

BULGARIA / Diseases of Cultivated Plants.

6

Abs Jour : Ref Zhur - Biol., No 9, 1958, No 39704

Author : Vitanov, M. M.

Inst : Dryanov Vegetable Experimental Station (Bulgaria)

Title : New Possibilities for Controlling Red Leaf Spot on Plum
Trees.

Orig Pub : Byul. rastit. zashchita, 1957, 6, No 1, 37-41.

Abstract : The spraying of the soil under the trees with 1% "scilonon" in the fall, after the shedding of leaves, or in the spring, before the opening of the buds, guarantees an almost total destruction of the stromata fungus. It prevents the formation of perithecia with ascospores, which cause this spring infection. Scilonon in concentrations of 1.5, 1.0 and 0.5% is considerably much more effective than 1% Bordeaux mixture, 1% copper sulfate, 1% ferrous

Card 1/2

VITANOV, Marko

Possibilities of cultivating the rust-resistant plum varieties.
Sel'skostop nauka 2 no.1:51-58 '63.

VITANOV, M.P., d-r

Variable irrigation standard in the study of the expenses spent
on the equipment of water economy. Tekhnika Bulg 3 no.1:12-17
Ja '54.

VITANOV, M.P., d-r

Economic security of irrigation undertakings. Tekhnika Bulg 3
no.3:25-29 Mr '54.

VITANOV, S.; TODOROV, I.

"Further development of the domestic industry."

p. 5 (Leka Promishlenost, Vol. 6, no. 7, 1957, Sofia, Bulgaria)

Monthly Index of East European Accessions (EEAI) LC, Vol. 7, No. 6, June 1958

TRIFONOV, As.; VITANOV, T.

Investigating the complexes of Fe(III) with lactic acid in water
solutions. Izv Inst khim BAN 7:309-319 '60.
(EEAI 10:9)

1. Khimicheski institut pri BAN.

(Lactic acid) (Iron) (Water) (Solutions)

BUDEWSKI, E. [Budevski, E.]; VITANOV, T.; BOSTANOV, V.

Mechanical equipment for producing rectangular galvanostatic impulses.
Doklady BAN 17 no.8:725-728 '64.

1. Institute of Physical Chemistry of the Bulgarian Academy of
Sciences, Sofia. Vorgelegt von St. Christov [Khristov, St.], korrig.
Mitglied der Akademie.

VITANOV, V.A. (Sofiya)

Influence of wars on demographic processes in Bulgaria.
Sov. zdrav. 21 no.3:75-79 '62. (MIRA 15:3)
(WAR)
(BULGARIA--DEMOGRAPHY)

VITANOVA, K.

"New broadcasts for our young listeners." p 1. (RADIO PRICLED, Vol. 8 #9, Feb. 1953,
Bulgaria)

SO: Monthly List of East European Accessions, Vol. 2 #8, Library of Congress,
August, 1954, Unclassified.

S/137/62/000/003/045/191
A006/A101

AUTHORS: Aradi, A., Vitanyi, P.

TITLE: Problems of vanadium metallurgy

PERIODICAL: Referativnyy zhurnal, Metallurgiya, no. 3, 1962, 22, abstract 30142
("Kohász lapok", 1961, v. 94, no. 7, 308 - 314, Hungarian; Russian,
English and German summaries)

TEXT: In Hungary V is obtained by processing wastes in alumina production. On the basis of the raw material amount, V production could be raised by a factor of 1.5. Experiments were made with refining $VC1_4$ of O_2 . It was established that $VOCl_3$ and $VC1_4$, unlike $VC1_3$, are well dissolved in CCl_4 . This made it possible to separate $VC1_3$ from $VC1_4$ and $VOCl_3$. $VC1_4$ should be preliminarily reduced to $VC1_3$ according to reaction $2VC1_4 + 2HI = 2VC1_3 + 2HCl + I$. The $VC1_3$ obtained was refined by vacuum distillation from I, $VC1_4$ and $VOCl_3$. However, refining from I was not complete. The given technology makes it possible to refine the raw material and to obtain pure V_2O_5 .

B. Mat'yush

[Abstracter's note: Complete translation]

Card 1/1

S/137/62/000/001/028/237
A060/A101

AUTHORS: Aradi Antal, Vitányi Pál

TITLE: Chlorination of vanadium

PERIODICAL: Referativnyy zhurnal, Metallurgiya, no. 1, 1962, 20, abstract 10153
("Fémipari kutató int. közl.", 1960, 4, 371-380, 403, 417, 427;
Hungarian; Russian, German, English summary)

TEXT: Investigations were carried out, directed towards obtaining VCl_4 from V_2O_5 by chlorination reduction. It was established that the degree of oxychloride admixture in the VCl_4 obtained depends upon the temperature and carbon concentration.

G. Svodtseva

[Abstracter's note: Complete translation]

Card 1/1

VITAR, MIRKO

10(0) 26(1) PLATE I BOOK REPRODUCTION CZECH 2569

Pravidla, V. (Vlastimil Vojtěch) (Pravilá pro průtok turbomachinery) Praha, Nakladatelství Československé Akademie Věd, Série technické, České vydání, 1956, 413 p. (Série 12a; Sborník práce pro výrobu strojů) Krátká súhl. zápis. 1,250 kopie printové.

Matějka, M. I. M. Jirí, Ingénier, Doctor, Corresponding Member of the Czechoslovak Academy of Sciences, Sup. Ed. i Láďákov Brno, Tech. Ed. i František Kudela.

PURPOSE: This collection of papers is intended for engineers and scientific workers in the field of turbomachinery.

CONTENTS: The collection covers turbomachinery theory, investigations of the flow of working substance in basic elements of turbomachines, comprising flow and variable with time and investigations of various problems in experimental machines and models. A Russian and an English summary follows each paper. No personalities are mentioned. There are 189 references; 75 Czech, 57 English, 50 German, 20 Russian, and 1 Dutch.

IV. RESEARCH WITH MODEL MACHINES

10. Matějka, Štefan, Ingénier, Vlček, An Approximate Method of Flow Analysis in Air Turbomachines Estimated With An Example Applied to Axial Turbines 277
11. Matějka, Miroslav, Ingénier, and Polák, Miroslav, Ingénier, Vlček, Experimental Axial Compressor 289
12. Matějka, Štefan, Ingénier, and Polák, Miroslav, Ingénier, Vlček, Experimental Poly-stage Axial Compressor for High Circumferential Speeds 305
13. Matějka, Štefan, Ingénier, and Polák, Miroslav, Ingénier, Vlček, Vort. - Symmetric Investigation of Blade Efficiency in Multi-stage Axial Compressor 310
14. Matějka, Štefan, Ingénier, Vlček, Supplements to the Preliminary Discussion: Matějka, Miroslav, Ingénier, Vlček, Design of the Last Stage (Blading) of Condensing Steam Turbines 319
15. Matějka, Miroslav, Ingénier, Doctor, Štefan Matějka, Vlček, Dynamic Series of Basic Turbine Blade Profiles 321
16. Matějka, Štefan, Ingénier, Vlček, New Testing Stand for Steam Turbines at ČKD, Plzeň 326
17. Vlček, Miroslav, Ingénier, ČKD Plzeňsko, Investigation of the Gas-turbine Kaplan (Propeller) Turbine 328
18. Matějka, Štefan, Ingénier, ČKD Plzeňsko, Measurement of the Effect of Basic Dynamic Engineering Parameters of Hydraulic Clutches on Performance Characteristics 330

30

V. MEASURING INSTRUMENTS

19. Matějka, Štefan, ČKD ČSVAV, Directional Probes (for three-dimensional investigation of flow) 403
20. Šimek, Ladislav, Ingénier, ČKD ČSVAV, Electric Measurement of Pressure 422
21. Matějka, P., Ingénier, ČKD ČSVAV, Torsional Dynamometer 431

AVAILABILITY: Library of Congress

CIA/CSA
11-27-59

Card 7/7

LEPES, Tibor, Major dr.; VITANOVIC, Radmila, biolog.

Resistance of *Anopheles maculipennis* to DDT in Macedonia. Voj. san. pregl., Beogr. 13 no.5-6:243-249 May-June 56.

1. Katedra za higijenu i epidemiologiju, VMA. Institut za mikrobiologiju i parazitologiju. Parazitolosko odjeljenje.
(MOSQUITOES, eff. of drugs on
DDT on *Anopheles maculipennis* (Ser))
(DDT, eff.
on *Anopheles maculipennis* (Ser))

Acetyl carnitine. R. KRIEGER and V. VITART (Acta Univ. Latvianiss. Med. Fak. Ser., 1933, 1, 297-303).—Carnitine and AcCl yield acetyl-carnitine chloride, m.p. 181° [α_D^{25}] -26.91°, which, with moist Ag_2O , yields acetyl-carnitine, m.p. 145° [α_D^{25}] -19.52° (A_{11} , m.p. 126°, and P_1 , m.p. 187°, mabs); this with $\text{Ba}(\text{MnO}_4)_2$ gives the same acetyl-butyrate as does carnitine, thus showing that the OH is in the β -position.

R-3

APPROVED FOR RELEASE: 09/01/2001 CIA-RDP86-00513R001860110018-5"

VITÁNYI, IRINA

S/081/62/000/002/062/107
B156/B101

AUTHORS: Aradi, Antal; Major, Gabriella; Vitányi, Irina

TITLE: Removal of vanadium oxychloride from vanadium chlorides of lower valency

PERIODICAL: Referativnyy zhurnal. Khimiya, no. 2, 1962, 364, abstract 2K103 ([Fémipari Kutató Intézet]. Hungarian patent 147786, 30. 11. 60)

TEXT: In order to produce pure VCl_3 (used in the production of metallic vanadium), the initial product is treated several times with an organic nonpolar solvent (CCl_4 , CS_2 or gasoline), and the solution of oxychlorides and chlorides of vanadium with higher valencies separated from the undissolved VCl_3 . The organic phase is then shaken up with water, converting the vanadium compounds into an aqueous solution. The regenerated solvent is returned for further use, and the compounds of vanadium are precipitated from the aqueous phase and reprocessed into VCl_3 . [Abstracter's note: Complete translation.]

Card 1/1

GERSUENSON, S., KOK, L.P., VITAS, K.I., DOBROVOLSKAYA, G.N.
and a SKURATOVSKAYA, I. N.

"Formation of a DNA-containing Virus by Host RNA."

report submitted for the 5th Intl. Congress of Biochemistry,
Moscow, 10-16 August 1961.

Dept. of Genetics, Inst. of Zoology, Acad. Sci. Ukr SSR

VITAS, K.I.,
M.P. PANASSYUK, (Main results of the scientific research
work during 1937 of the Pan-Soviet Scaintific Research
Institute for the Sugar Industry (VNIS) 483 pp. 30 figs.,
31 diags., 14 graphs., 1939. (pp 257-260)(260-262)

VITAS, K. I.,

"Effect of Various Methods of Pre-sowing Treatment of Beet Seed on Infection with Korneed (A Complex Disease)," in Principals Conclusions of the Scientific-Research Work of the All Union Scientific-Research Institute for the Sugar Industry for 1937, State Technological-Economical Publishing House of Food Industry, Moscow, 1939, pp. 255-257. 65.9 V96

So: Sira - Si-90-53, 15 Dec. 1953

VITAS, K. I.

K. I. Vitas, "Study of the Fungus Botrytis cinerea Pers. and Other Fungi for Use during Microbiological Analysis of the Infection of Beet Roots by Storage Rot," in Principal Conclusions of the Scientific-Research Work of the All Union Scientific-Research Institute for the Sugar Industry for 1938, State Technological-Economical Publishing House of Food Industry, Moscow, 1940, pp. 166-167.
65.9 V96

SO: Sira S1 90-53, 15 Dec 1953

VITAS, K. I.

See: SALUNSKAIA, N. I., GOMOLIAKO, N. I., and GRINBERG, D. N.

VITAS, K. I. "Study of Rhizoctonia on Sugar Beets," in Principal Conclusions of the Scientific-Research Work of the All Union Scientific-Research Institute for the Sugar Industry for 1937, State Technological-Economical Publishing House of Food Industry, Moscow, 1939, pp. 260-262. 65.9 V96

So: Sira - Si - 90- 53, 15 December 1953

GERSHENZON, S.M.; KOK, I.P.; VITAS, K.I.; DOBROVOL'SKAYA, G.N.
[Dobrovols'ka, H.M.]; SKURATOVSKAYA, I.N. [Skuratovs'ka, I.N.]

Formation of a virus containing deoxyribonucleic acid by a
ribonucleic acid host. Dop. AN URSR no. 12:1638-1641 '60.
(MIRA 14:1)

1. Institut zoologii AN USSR. Predstavлено академиком AN USSR
V.G. Kas'yanenko.
(Silkworms) (Nucleic acids) (Viruses)

VITAS, K. I., DOBROVOLSKAYA, G. N., SKURATOVSKAYA, I. N., GERSHENZON, S.M.,
KOK, I. P., (USSR)

"DNA Containing Virus Formation with the Acid of Host RNA."

Report presented at the 5th Int'l. Biochemistry Congress, Moscow, 10-16 Aug 1961.

16.3900

29459
P/033/61/013/004/002/005
D250/D302

AUTHORS: Babuška, Ivo, and Vitásek, Emil (Prague)

TITLE: The Wiener-Hopf technique in the theory of difference equations (II)

PERIODICAL: Archiwum mechaniki stosowanej, v. 13, no. 4, 1961, 457-468

TEXT: The authors extend the discussion of their previous work (Ref. 1: Wiener-Hopf technique in the theory of difference equations (I), Arch. Mech. stos. 1, 13 (1961) 3-21) to two dimensions. The problem is defined as follows: M_2 denotes the set of all mesh points in the two-dimensional Euclidean space, and R_2 the set of all appropriately bounded complex functions defined on M_2 . Let $D \subset M_2$. $R_2^{(D)}$ will indicate a subspace of the space R_2 of functions f , for which

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The Wiener-Hopf technique ...

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$$f(r) = 0 \text{ for all } r \in M_2 - D \quad (2.2)$$

Let $f \in R_2$. The function $f^{(D)} \in R_2^{(D)}$ is made to correspond the function f , according to the rule

$$f^{(D)}(r) = f(r) \text{ for all } r \in D \quad (2.3)$$

Let \hat{R}_2 be the set of all functions $a \in R_2$, for which the following holds: For every integer $p \geq 0$ there exists a constant $C_p \geq 0$, such that

$$|a(r_1, r_2)| \leq \frac{C_p}{(1+|r_1|^p)(1+|r_2|^p)} \quad (2.4)$$

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The Wiener-Hopf technique ...

for all $r \in M_2$. Further let $a \in \widehat{R}_2$. Then a mapping A defined by the rule

$$(Af)(r_1, r_2) = \sum_{s_1=-\infty}^{\infty} \sum_{s_2=-\infty}^{\infty} a(r_1 - s_1, r_2 - s_2) f(s_1, s_2) \quad (2.5)$$

is the convolution mapping of the space R_2 into R_2 . Let $A^{(D)}$ designate the mapping of the space $R_2^{(D)}$ into the space $R_2^{(D)}$, defined by the rule $A^{(D)} f = (Af)^{(D)}$,

$$A^{(D)} f = (Af)^{(D)} \quad (2.6)$$

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The Wiener-Hopf technique ...

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D250/D302

The problem of finding a function $g \in R_2^{(D)}$ such that $A^{(D)}g = f$,

$$A^{(D)}g = f \quad (2.7)$$

is called the Wiener-Hopf A-problem on the set D. Then the solution is given by the following theorem: Let D be an arbitrary set of mesh points, W(D) its WH-kernel, and $W(M_2-D)$ the WH-kernel of its complement. Further let a K_1, K_2 decomposition be possible for A, such that $K_1 \subset W(D)$, $K_2 \subset W(M_2-D)$. Then the Wiener-Hopf A-problem on the set D has one and only one solution for each right hand side $f \in R_2^{(D)}$. This solution is given by the formula

$$g = \mathcal{F}^{-1} \left\{ \frac{1}{\mathcal{F}^*} \mathcal{H} [\mathcal{F}^{-1} (\mathcal{F}^* \mathcal{F} f)]^{(D)} \right\} \quad (5.2)$$

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The Wiener-Hopf technique ...

where

$$\begin{cases} \mathcal{J}_c = e^{\mathcal{F}[\mathcal{F}^{-1}(\ln \mathcal{J}_a)]^{(K_1)}}, \\ \mathcal{J}_d = e^{-\mathcal{F}[\mathcal{F}^{-1}(\ln \mathcal{J}_a)]^{(K_2-K_1)}} \end{cases} \quad (5.3)$$

The WH-kernel of the set D is denoted by $W(D)$ and defined as follows: Let r be an arbitrary fixed mesh point $r \in D$. Further let $p_r(\varphi)$ be a ray originating in this point and forming an angle φ with the positive direction of the axis X_1 , and let V_r be the set of such $p_r(\varphi)$, for which $(p_r(\varphi) \cap K_2) \subset D$. Let a ray $g_r(\varphi)$ originating in the origin and forming the same angle with the positive direction of the axis X_1 , correspond to each ray $p_r(\varphi)$. Thus a certain set is made - call it $V_r^{(0)}$ - of rays originating in the origin,

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The Wiener-Hopf technique ...

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corresponding to every point $r \in D$. Then

$$W(D) = \left(\bigcap_{r \in D} V_r^{(0)} \right) \cap M_2 \quad (4.19)$$

K_1, K_2 decomposition for the operator A is said to be possible if sets and functions described as follows exist: Let $a \in \hat{R}_2$ and let a have the index zero. Further let a have the property that the sets $K_1, K_2 \in M_2$ exist, such that $\mathcal{F}^{-1}(\ln \mathcal{F}a) \in K_1 \cup K_2$. Then there exist such functions c and d , $c \in \hat{R}_2$, $d \in \hat{R}_2$, c, d have the index zero, $c \in R_2^{(K_1)}, d \in R_2^{(K_2)}$ that

$$\mathcal{F}a = \frac{\mathcal{F}c}{\mathcal{F}d} \quad (4.16) \quad \checkmark$$

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The Wiener-Hopf technique ...

The Fourier transform is defined by:

$$\mathcal{F}f = \sum_{s \in M_2} f(s) e^{i(s_1 x_1 + s_2 x_2)} \quad (4.8)$$

Say that $a \in \hat{R}_2$ has the index zero if $\mathcal{F}a \neq 0$ for all $x \in E_2$;

$$[\text{Arg}(\mathcal{F}a)(x_1, x_2)] \Big|_{x_1=0}^{x_1=2\pi} = 0, \quad [\text{Arg}(\mathcal{F}a)(x_1, x_2)] \Big|_{x_1=0}^{x_2=2\pi} = 0 \quad (4.10)$$

Also assume that the set $K \subset M_2$ belongs to the class \mathcal{M}_2 , if it

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The Wiener-Hopf technique ...

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is formed by all the mesh points lying on all rays $p(\varphi)$, issuing from the origin and forming an angle φ with the positive direction of the axis X_1 , such that $\alpha \leq \varphi \leq \beta$ or $\alpha < \varphi < \beta$, where $\beta - \alpha \leq \pi$. The theorem is applied to a heat-conduction-type problem, to the difference analogue of the equation $\nabla^2 u - \alpha u = f$ and to that of the equation $\nabla^4 u + 12 \nabla^2 u + 36u = f$; it is found that the second of these problems can be solved by this technique only when the domain D is a half-plane, but the first and third can be solved for more general domains. There are 4 Soviet-bloc references.

ASSOCIATION: Mathematical Institute of the Czechoslovak Academy of Sciences

SUBMITTED: January 25, 1961

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BABUSHKA, I.; PRAGER, M.; VITASEK, E. (Praga)

Closure of computation processes and the drift method. Zhur.
vych. mat. 1 mat. fiz. 4 no.2:351-353 Mr-Ap '64.
(MIRA 17:7)

VITASEK, Emil

"Numerical solution of ordinary and partial differential equations" edited by L.Fox. Reviewed by Emil Vitasek.
Aplikace mat. 8 no.4:314-315 '63.

WITSKA, Ivo; VITASEK, Emil

Wiener-Hopf technique in the theory of difference equations.II.
Archiw mech 13 no.4:457-469 '61.

1. Mathematical Institute, Czechoslovak Academy of Sciences, Praha.

VITASEK, Emil

A numerical calculation of quasi-stationary solution of heat conduction equation. *Applikace mat 5 no.6:412-441 '60.*

1. Author's address: Matematicky ustav, Praha-Nove Mesto, Zitna 25.

BABUSKA, Ivo, (Praha); Vitasek, Emil (Praha)

Wiener-Hopf technique in the theory of difference equations.
Archiv mech 13 no.4:457-469 '61.

1. Mathematical Institute, Czechoslovak Academy of Sciences, Praha.

21140
 Z/026/60/005/006/001/002
 D256/D304

24.5200 (1164,1537) 16.3900
 AUTHOR: Vitásek, Emil

TITLE: Numerical treatment of the quasi-stationary solution
 for the heat conducting equation

PERIODICAL: Aplikace matematiky, v. 5, no. 6, 1960, 412 - 441

TEXT: This is a continuation of previous work published by the
 author (Ref. 1: Über die quasistationäre Lösung der Wärmeleitungs-
 gleichungen, Apl. Mat. 5, 1960, 109 - 140) and describes the fol-
 lowing problems: Let $h_n = h_0/2^n$, $\tau_n = \tau_0/2^{2n}$ ($n = 0, 1, 2, \dots$),
 $h_0 = b/N_1$, $\tau_0 = t_0/N_2$ (N_1, N_2 are natural numbers) X

$$0 < \frac{\tau_n}{ah_n^2} = \beta < \frac{1}{2} \quad (2.1.1)$$

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Numerical treatment of the ...

a, b, t_0 are positive constants. S_n represents a multitude of points $[kh_n, l\tau_n] \in E_2(k, l = 0, \pm 1, \pm 2 \dots)$ and similarly $S_n^{(0)}$ $(S_n^{(1)})$ a multitude of points $kh_n \in E_1(l\tau_n \in E_1)(k(l) = 0, \pm 1, \pm 2, \dots)$. The points of the network $S_n, S_n^{(i)}$ will be called nodes and the functions defined on $S_n, S_n^{(i)}$ = network functions. If A_n is an operator which to the function $f_n(x)$ defined on $(0, \infty)$ coordinates the solution of the equation

$$\frac{u_n(x, t + \tau_n) - u_n(x, t)}{\tau_n} - \frac{1}{a} \frac{u_n(x + h_n, t) - 2u_n(x, t) + u_n(x - h_n, t)}{h_n^2} = \frac{1}{\tau_n} z_n(x, t + \tau_n) \quad (2.3.2)$$

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Numerical treatment of the ...

$[x, t] \in (\langle 0, \infty \rangle \times \langle 0, T \rangle) \cap S_n$; $z_n(x, t)$ is a network function defined by the relations:

$$z_n(x, t) = \int_{t-t_n}^t q(s + kt_0) ds \text{ for } kb < x < (k+1)b, \quad (2.3.3)$$

$$z_n(kb, t) = \frac{1}{2} \left[\int_{t-t_n}^t q(s + (k-1)t_0) ds + \int_{t-t_n}^t q(s + kt_0) ds \right],$$

(a, T are positive constants, $T > t_0$, $q(t)$ is a given function)
 under the initial condition of $u_n(x, 0) = 0$ for $0 < x < b$, $u_n(x, 0) = f_n(x - b)$ for $b < x < \infty$ and the marginal condition $u(0, t) = 0$ for $t > 0$, for $t = t_0$ that is $(A_n f)(x) = u_n(x, t_0)$. It is

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Numerical treatment of the ...

shown that in some quantities of the network function M_n there exists a quasi-stationary solution, if there is such a function $f_n \in M_n$ that $(A_n f_n)(x) = f_n(x)$ is valid. The following theorems are proved: Theorem 1: If M_n is the multitude of function f_n defined for $(0, \infty) \cap S_n^{(0)}$ for which is valid:

$$0 \leq f_n(x) \leq ax + ba, x \in (0, \infty) \cap S_n^{(0)} \quad (2.4.15)$$

(a is a definite constant): Then the function $q(t)$ from Eq.(2.3.3) is continuous, positive, and limited in $0, \infty$. There then exists in M_n one quasi-stationary solution. Theorem 2: Let

$$f_n^{(0)} \in M_n, f_n^{(k+1)} = A_n f_n^{(k)}, k = 0, 1, 2 \dots$$

then the function $f_n^{(k)}$ converges for $k \rightarrow \infty$ uniformly with the quasi-stationary solution. Theorem 3: If f_n is the quasi-stationary

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ry network solution, the network function $f_n(x)$ is defined for those x , for which it is not defined in linear fashion. The column of continuous function thus gained will then converge for $n \rightarrow \infty$ locally uniform with the quasi-stationary solution. There are 6 references, 5 Soviet-bloc and 1 non-Soviet-bloc.

ASSOCIATION: Matematicky ïstav Praha (Mathematical Institute, Prague)

SUBMITTED: November 6, 1959

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23899
P/033/60/012/002/004/008
D214/D301

AUTHOR:

Vitásek, Emil (Prague)

TITLE:

The n-dimensional Fourier transform in the theory of
difference equationsPERIODICAL: Archiwum mechaniki stosowanej, v. 12, no. 2, 1960,
185 - 202

TEXT: According to its content, the present paper belongs to the series of studies originated by I. Babuska (Ref. 1: The Fourier Transform in the Theory of Difference Equations and its Applications, Arch. Mech. stos., 4, 11, 1959, 349-381). In these studies an attempt is made to construct a theory of integral transforms of functions defined at the meshpoints of a net in such a manner that it becomes possible to make use of the theory of difference equation problems, analogically, as integral transforms are presently used for the solution of differential equations. The contents of this paper cover the theory of the n-dimensional Fourier transform

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The n -dimensional Fourier ...

of mesh functions; in this respect it is closely connected to (Ref. 1: Op.cit.) where this theory was constructed for the one-dimensional case. The Fourier transform of Mesh Functions is a periodic function over the whole set of functions which have continuous derivatives of all orders and for which the following is true: for every two n -tuplets of non-negative integers $p = (p_1; \dots, p_n)$, $q = (q_1, \dots, q_n)$ there exists a constant $C_{p,q}$ such that

$$/x^p D^q \varphi(x)/ \leq C_{p,q} \quad (2.1)$$

for every

$$x \in E_n \quad (x^p \equiv x_1^{p_1} \dots x_n^{p_n}, \quad D^q \equiv \frac{\partial^{q_1 + \dots + q_n}}{\partial x_1^{q_1} \dots \partial x_n^{q_n}}).$$

It is shown that similarly to the one-dimensional case, the mapping is algebraically and topologically isomorphic. A number of examples are given to illustrate the theory, the most significant

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The n-dimensional Fourier ...
ones being

$$(4.1) \quad H[g(s_1+1, s_2) + g(s_1-1, s_2) + g(s_1, s_2+1) + g(s_1, s_2-1) - 4g(s_1, s_2)] - Cg(s_1, s_2) = -f(s_1, s_2), \quad (4.1)$$

an inelastic plane network on elastic supports with a constant horizontal projection H of stress, and

$$(4.3) \quad \begin{cases} a(0,0) = -4H - C, \\ a(1,0) = a(-1,0) = a(0,1) = a(0,-1) = H, \\ a(s_1, s_2) = 0 \quad \text{for } \|s\| > 1. \end{cases} \quad (4.3)$$

Green's function of the difference equation of heat conduction in n variables. There are 6 references: 5 Soviet-bloc and 1 non-Soviet-bloc.

ASSOCIATION: Mathematical Institute, Czechoslovak Academy of Sciences

SUBMITTED: November 25, 1959
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D214/D301

244200 1103, 1327, 1121 also 2807

23518
P/033/61/013/001/001/009
D242/D301

AUTHORS: Babuška, Ivo and Vitásek, Emil (Prague)

TITLE: The Wiener-Hopf technique in the theory of difference
equationsPERIODICAL: Archiwum mechaniki stosowanej, v. 13, no. 1, 1961,
3-21

TEXT: In this paper, the results of I. Babuska's work (Ref. 1: The Fourier Transform in the Theory of Difference Equations and its Applications, Arch. Mech. Stos., 11 (1959) 349-381) is extended to the solution of the Wiener-Hopf problem in the one-dimensional case. The problem is defined as follows: M denotes the set of all integers; R denotes the linear space of all bounded complex functions defined on M ; R_+ denotes the subspace such that $f(n) = 0$ for $n < 0$; $f_+(n) = 0$ and $f_{--}(n) = f(n)$ if $n < 0$; $f_+(n) = f(n)$ and $f_{--}(n) = 0$ if $n \geq 0$; Given a function $a \in R$ such that to every integer $p \geq 0$ there exists a constant C_p with $|a(n)(|n|^p + 1)| \leq C_p$ for all $n \in M$ (2.2)

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The Wiener-Hopf technique...

Then the map A of the space R into R defined by the relation

$$(Af)(n) = \sum_{l=-\infty}^{\infty} f(l)a(n-l) \quad (2.3)$$

is called the convolution map and the set of all functions $a \in R$ having the properties described is denoted by R . The map A_+ is defined by $(A_+f) = (Af)_+$; then the Wiener-Hopf A_+ problem is the problem of finding a function $g \in R_+$ such that $A_+g = f$, where $f \in R_+$ is given. If $a \in R$ has index 0, this problem has just one solution

$$g = \mathcal{F}^{-1} \left\{ \frac{1}{\mathcal{F}c} \mathcal{F} \{ (\mathcal{F}^{-1}(\mathcal{F}d \cdot \mathcal{F}f))_+ \} \right\}, \quad (5.1)$$

where

$$\mathcal{F}c = e^{\mathcal{F}(\mathcal{F}^{-1}(a \cdot \mathcal{F}f))_+}, \quad \mathcal{F}d = e^{-\mathcal{F}(\mathcal{F}^{-1}(a \cdot \mathcal{F}f))_-}, \quad (5.2)$$

where \mathcal{F} is the Fourier transform operator such that

$$\mathcal{F}g = \sum_{n=-\infty}^{\infty} g(n)e^{inx}$$

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The Wiener-Hopf technique...

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and $a \in R$ has an index equal to zero, if a) $\int a \neq 0$ for all x , b) $(\lg \int a)(\pi) - (\lg \int a)(-\pi) = 0$ where a single branch of \lg is taken in the whole interval. If $\int a$ is a real-valued function and if there is $(\int a)(x) \neq 0$ for all x , then a has index 0. The use of the theorem is demonstrated by the solution of two problems: the first is that of an inelastic network on an elastic support of the Winkler type; the second is the relaxation of Poisson's problem for an infinite strip with mixed boundary conditions. There are 2 figures and 9 references: 8 Soviet-bloc and 1 non-Soviet-bloc. The reference to the English-language publication reads as follows: B. Noble, Method Based on the Wiener-Hopf Technique for the Solution of Partial Differential Equations, Pergamon-Press, London, New-York, Paris, Los-Angeles, 1958.

ASSOCIATION: Mathematical Institute of the Czechoslovak Academy of Sciences

SUBMITTED: August 1, 1960

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X

VITASEK, E.

"Effect of the formulation of marginal conditions on the speed of convergence in
the solution of partial differential equations by the difference method"

p. 163 (Institute of Mathematics, Czechoslovak Academy of Sciences) Vol. 2, no. 3, 1957

SO: Monthly Index of East European Accessions (EEAI) LC, Vol. 7, no. 5, May 1958

Influence of the Formulation of the Boundary Conditions on the Convergence Rate of the Solution of Partial Differential Equations by the Difference Method

Vitásek, Emil. Einfluss der Formulierung der Randbedingungen auf die Konvergenzgeschwindigkeit bei der Lösung von partiellen Differentialgleichungen mittels der Differenzenmethode. Apl. Mat. 2 (1957), 163-183. (Czech. Russian and German summaries) 1-F/w

Die vorliegende Untersuchung zerfällt in fünf Abschnitte. Zuerst wird die Lösung der partiellen Differentialgleichung (*) $\partial^2 u / \partial x^2 = \partial u / \partial t$ im Bereich R : $(0 < x < a, 0 < t < T)$ unter den Anfangsbedingungen

$$u(x, 0) = \phi(x) \text{ für } 0 < x < a;$$

$$\frac{\partial u(0, t)}{\partial n} = Q_1(t), \quad \frac{\partial u(a, t)}{\partial n} = Q_2(t), \quad 0 < t < T,$$

behandelt. Wird ϕ gewählt, und die Ebene (x, t) innerhalb R mit Geraden $x = mh, t = n\tau$ überdeckt, wobei $h = a/p$, $\tau = \beta h^2$, $0 < \beta < \frac{1}{2}$, m, n ganz, so bestimmen die Schnittpunkte dieser Geraden ein von den Parametern h und τ abhängiges Netzmaschensystem. Die Methode der Lösung der Differentialgleichung (*) mit Hilfe einer solchen Netzaüberdeckung (Differenzenmethode) kommt auf die Kenntnis einer Funktion $U(x, t)$ hinaus, die in den Maschenpunkten innerhalb R : $(0 \leq x \leq a, 0 \leq t \leq T)$ definiert ist

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und in jedem in R gelegenen Maschenpunkt den Bedingungen

$$\frac{U(x+h, t) - 2U(x, t) + U(x-h, t)}{h^2} = \frac{U(x, t+\tau) - U(x, t)}{\tau}$$

*2
1-1/w*

und $U(x, 0) = p(x)$ auf der Geraden $t=0$, $0 \leq x \leq a$ genügt. An Stelle der Anfangsbedingungen treten die Differenzengleichungen

$$\frac{U(h, t) - U(0, t)}{h} = -Q_1(t), \quad \frac{U(a, t) - U(a-h, t)}{h} = Q_2(t).$$

Mit U und u ist auch $e(x, t) = U(x, t) - u(x, t)$ in jedem Maschenpunkt innerhalb R definiert. Für $e(x, t)$ wird bewiesen: die Funktion $e(x, t)$ genügt in R der Abschätzung $|e(x, t)| \leq Mh$, wobei M nur von R , von u und den Ableitungen dieser Funktion bis zu vierten Ordnung, aber für hinreichend kleine h nicht von h abhängt. Die Funktion $u(x, t)$ kann dabei den angegebenen Bedingungen unterworfen werden, wobei für $t_0 \geq t_0 > 0$ die Geschwindigkeit der Nullkonvergenz von $e(x, t)$ genau durch h gegeben ist. Als Anwendungen der Theorie bieten sich die zweiten und dritten Randwertaufgaben der Theorie der Wärmeleitung im ein- und zweidimensionalen Fall sowie das dritte Randwertproblem für die Laplacesche

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Influence of the Formulation of the Boundary Conditions on the Convergence Rate of the Solution of Partial Differential Equations by the Difference Method

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Influence of the Formulation of the Boundary Conditions on the Convergence Rate of the Solution of Partial Differential Equations² by the Difference Method

Gleichung $\frac{\partial^2 u}{\partial x^2} + \frac{\partial^2 u}{\partial y^2} = 0$. Zum Schluß wird ein numerisches Beispiel für den Fall der Differentialgleichung (*) mit der Anfangsbedingung $u(x, 0) = e^x$ und den Randbedingungen $\frac{\partial u(0, t)}{\partial x} = e^t$, $\frac{\partial u(1, t)}{\partial x} = e^{t+1}$ im Intervall $\langle 0, 1 \rangle \times \langle 0; 0,24 \rangle$ tabellarisch durchgerechnet. Die Arbeit ist für Verfasser durch die Unzweckmäßigkeit des Ersatzes der Ableitungen in der Differenzenmethode durch die zugehörigen Differenzen bei der Formulierung der Randbedingungen veranlaßt worden. Dabei wurden nämlich bisher der Differentialoperator mit der Genauigkeit h^2 , dagegen die ersten Ableitungen in den Randbedingungen mit der Genauigkeit h approximiert. Auch die Interpolation der ersten Randbedingungen durch eine Parabel im Falle der Wärmeleitungsgleichung ist unzweckmäßig.

M. Pinl (Köln)

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17/w*

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VITASEK, Emil (Praha, Czechoslovakia)

The non-dimensional Fourier transform in the theory of difference equations. Archiv mechanik 12 no. 2:185-202 '60.

1. Mathematical Institute, Czechoslovak Academy of Sciences.

BABUSKA, Ivo; VITASEK, Emil (Praha)

Wiener-Hopf technique in the theory of difference equations. I.
Archiv mech 13 no.1:3-21 '61.

1. Mathematical Institute, Czechoslovak Academy of sciences, Praha.

L 17896-66 ENT(d) IWP(c)
ACC NR: AF6009992

SOURCE CODE: 01/0026/65/010/002/0130/0145

AUTHOR: Vitasek, Emil (Candidate of sciences)

27

ORG: Mathematical Institute, CSAV, Prague (Matematicky ustav CSAV)

B

TITLE: Stability of numerical processes

SOURCE: Aplikace matematiky, v. 10, no. 2, 1965, 130-145

TOPIC TAGS: numeric analysis, parameter

ABSTRACT: The article defines numerical process and gives examples of them which show their features which lead to questions of their stability. Numerical processes are examined which depend on an arbitrarily chosen parameter, and the dependence of stability on that parameter is described. Orig. art. has: 7 figures, 24 formulas, and 4 tables. [JPRS]

SUB CODE: 12 / SUBM DATE: none / ORIG REF: 002 / OTH REF: 002
SOV REF: 001

2

Card 1/1

VITASEK, Frantisek, prof.,dr. (Brno, Capkova 38)

Geographical regions of Moravia. Prace CSAV Brno 34 no.4:
103-148 '62.

VITASEK, Frantisek

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S: Monthly List of East European Accessions, (EEAL), LC, Vol. 5, No. 6 June 1956,
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VITA EK, F.

The voctims of Nazism from among Czech geographers. p. 173.

Ceskoslovenska spolecnost zemepisna. SBORNIK, CZECHOSLOVAKIA

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SOURCE: East European Accessions List (EEAL) Library
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VITASEK, F.

VITASEK, F. The snow line in the high Tatras. p. 171.

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VITASEK, F.

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SO: Monthly List of East European Accessions (EEAL) LC, Vol. 6, No. 12, Dec 1957. Uncl.

VITASEK, Jiri, promovany geolog

Geophysical exploration of the Moldava deposit. Rudy 13 no.3:
101-103 Mr '65.

1. Institute of Ore Research, Prague.

VITASEK, Jiri, promovany geolog

Surveying boreholes from mine workings. Rudy 11 no. 7:238-240
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1. Ustav pro vyzkum rud, Praha.

VITASEK, Jiri, promovany geolog

Rectifier for the Tiram set. Geol pruzkum 6 no.12:375-
376 D '64.

1. Institute of Ore Research, Prague.

VITASEK, Stanislav

Reasons for delays in construction of medical institutions.
Cesk. zdravot. 4 no.11:677-678 Nov 56.

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